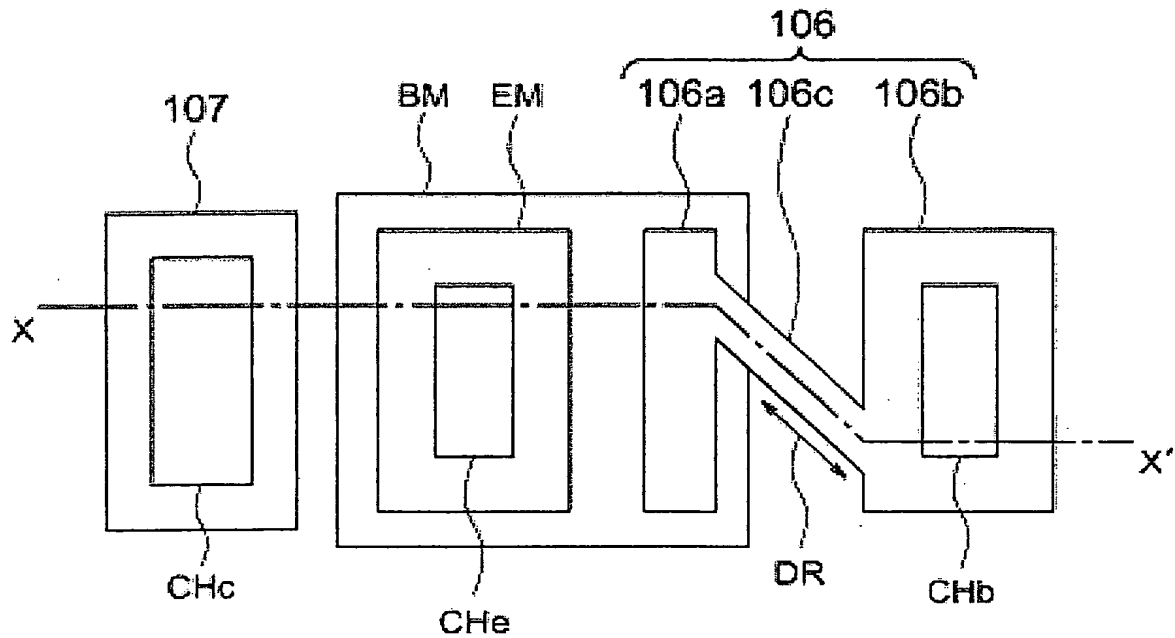




FIG. 1A PRIOR ART



PRIOR ART FIG. 1B

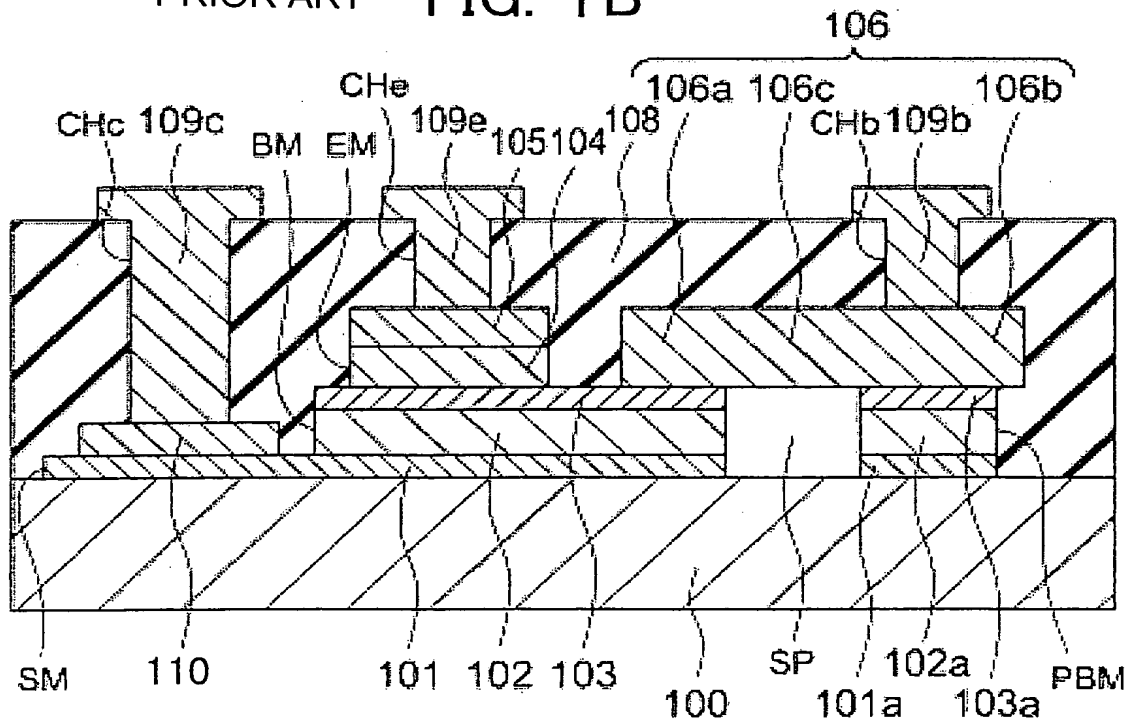


FIG. 2A PRIOR ART

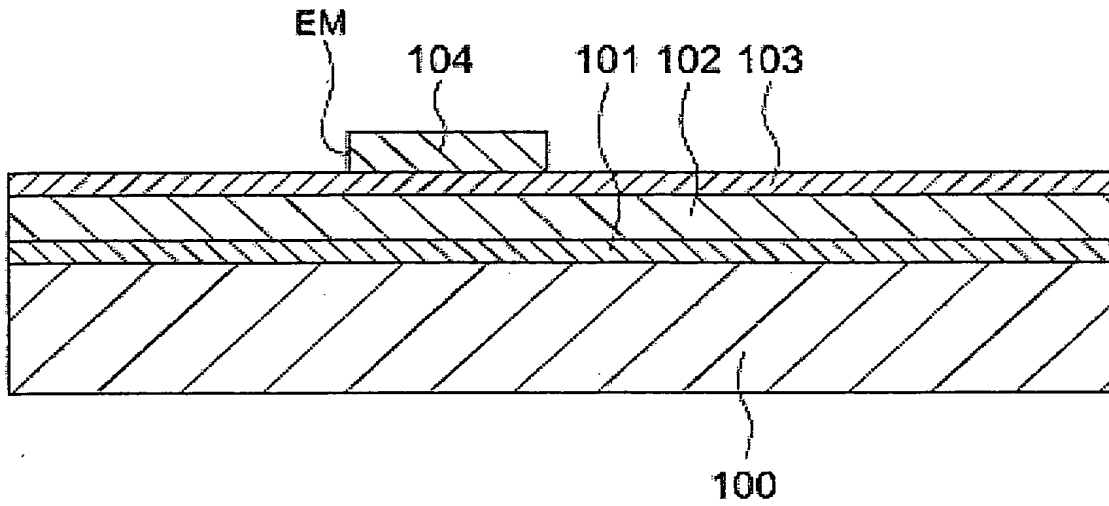


FIG. 2B PRIOR ART

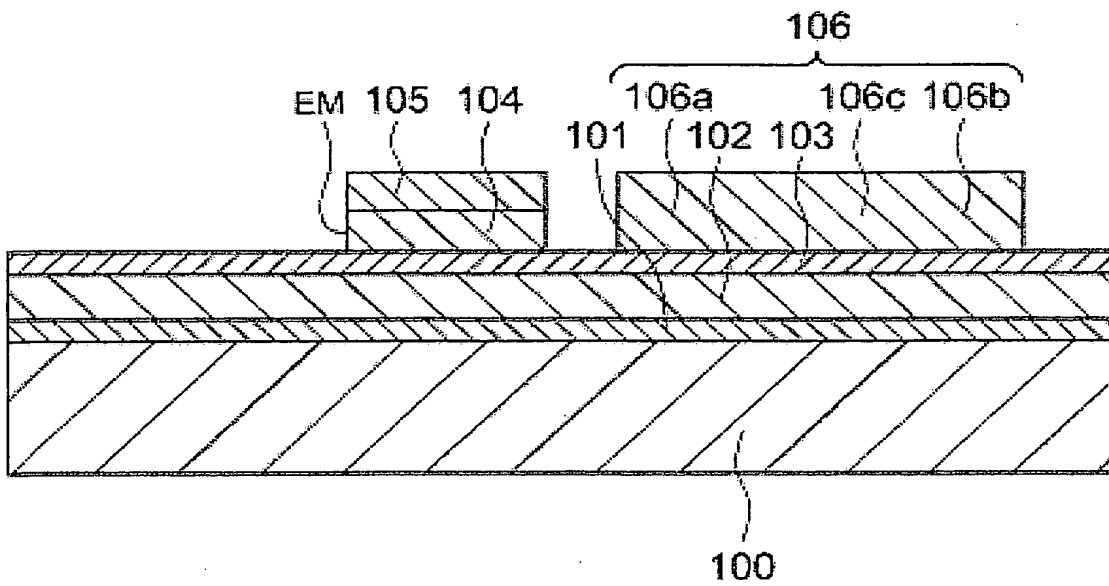
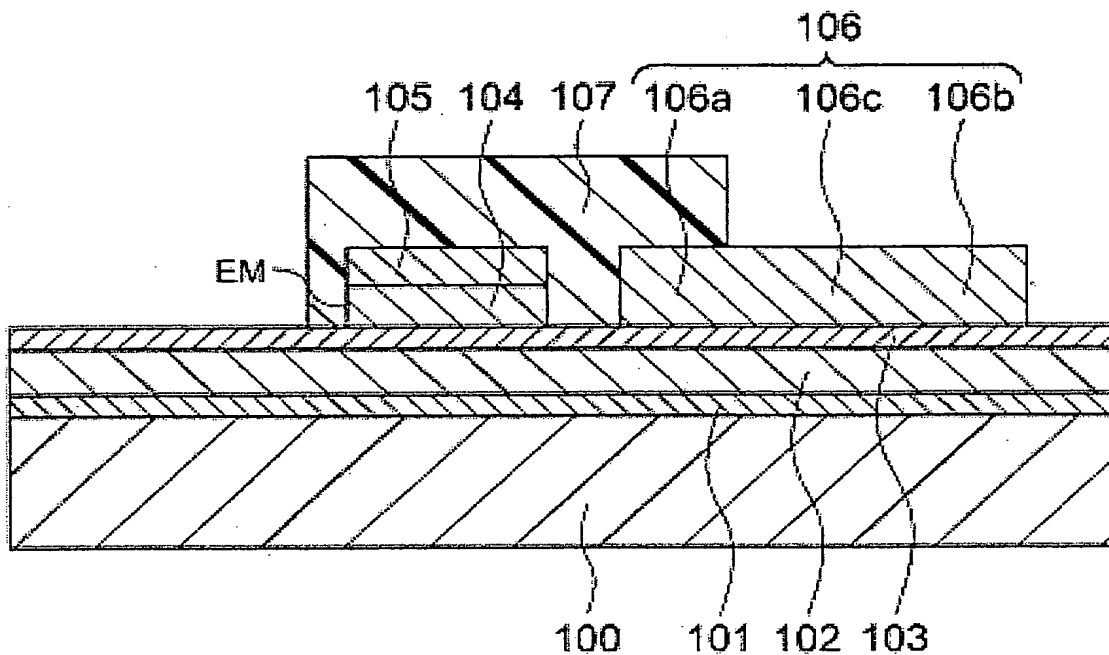


FIG. 2C PRIOR ART



PRIOR ART FIG. 2D

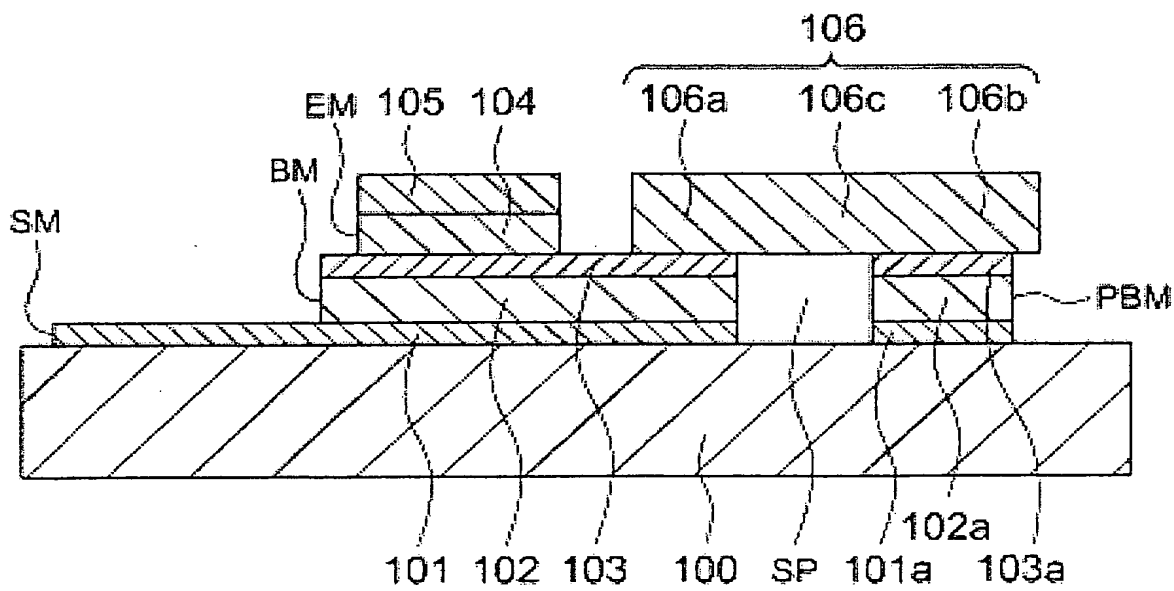


FIG. 3A

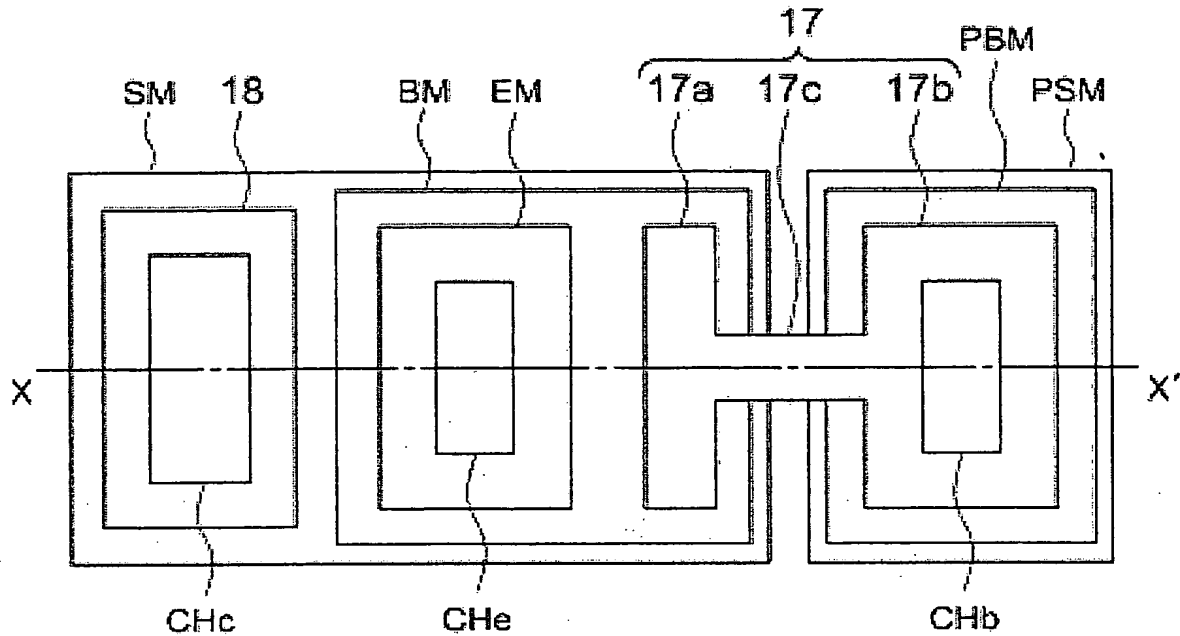
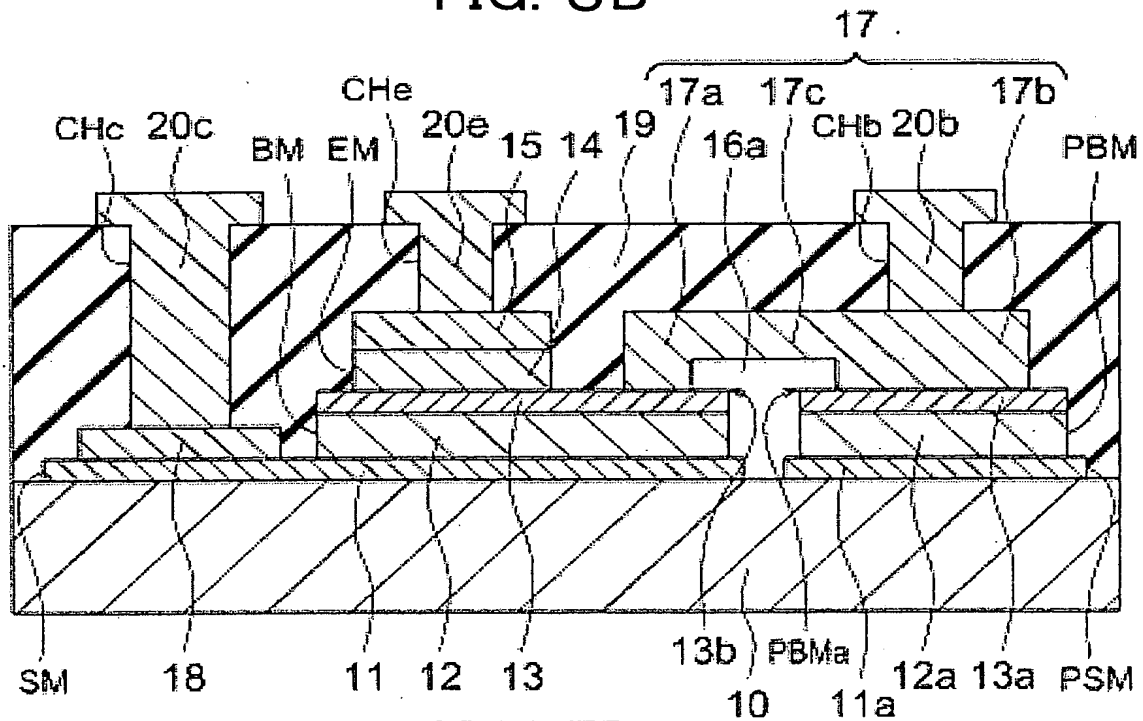


FIG. 3B



- 12...COLLECTOR LAYER
- 13...BASE LAYER
- 14...EMITTER LAYER
- 17...INTERCONNECTING LAYER
- 17a...BASE ELECTRODE
- 17b...BASE CONTACT PAD ELECTRODE
- 17c...INTERCONNECTING PORTION
- PBM...BASE MESA STRUCTURE FOR USING
BASE CONTACT PAD